## INTERNATIONAL SEARCH REPORT

IB2004/052134

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H02M3/158 H02M3/07 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 HO2M HO3M Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, PAJ, WPI Data, COMPENDEX C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X US 5 751 139 A (HACK THOMAS PETER ET AL) 1,7,8 12 May 1998 (1998-05-12) Υ column 2, line 56 - column 3, line 11; 2-6,9,10figures 1,10,11 Y KUWABARA K ET AL: "Switched-capacitor 2-4 DC-DC converters" INTELEC. TENTH INTERNATIONAL TELECOMMUNICATION ENEREGY CONFERENCE, 30 October 1988 (1988-10-30), pages 213-218, XP010078359 **NEW YORK** Table 1: Voltage polarity inverting converter χ Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the 'A' document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the International "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'Y' document of particular relevance; the claimed Invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-ments, such combination being obvious to a person skilled \*O\* document referring to an oral disclosure, use, exhibition or document published prior to the International filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 17 January 2005 01/02/2005 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Braccini, R

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